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NATURAL RESOURCES

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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M E M O R A N D U M
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TO: The Board of Oil, Gas, and Mining

FROM: K. Michael Thompson, Engineering Geologist

SUBJECT: Riter and Don Ekker, a Partnership
Mountain King Mine
Emery County, Utah
ACT/015/023

DATE: March 19, 1979

The Division seeks the Board's concurrence for the issuance of tentative approval for the Mountain King Mine, Emery County, Utah, to be operated by Riter and Don Ekker, a Partnership. In addition the Division seeks concurrence for the amount of the reclamation surety (\$5,464.00) and form (an escrow account). An Executive Summary is enclosed for your reference.

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EXECUTIVE SUMMARY

Riter Ekker and Don Ekker Partnership

Mountain King Mine
ACT/015/023
Section 3, Township 25 South, Range 11 East
Emery County, Utah

MINING METHOD:

The Mountain King Mine is a reactivation of abandoned underground uranium operations. However, these underground workings have been mined to the extent that further extraction by random room and pillar mining would be unsafe. In addition, the abandoned workings have subsided to some extent. The proposed mining method, therefore, is to strip the thin overburden off of the underground workings after they have been caved. Overburden will be deposited back into the mined out sections. Topsoil and colluvium will be stockpiled prior to disturbance and will be respread upon termination of mining.

LOCATION:

The Mountain King Mine is located in Section 3, Township 25 South, Range 11 East, Emery County, Utah. Consult the enclosed map for location.

SOILS AND GEOLOGY:

Soils at the proposed mine site are relatively thin and rocky. Sandstone bedrock outcrops occur over much of the proposed mine area. Ore occurs in sandstone members of the Chinle Formation.

HYDROLOGY:

Groundwater does not occur at the proposed mining depth. The abandoned workings appear to be dry. The strip mining process should increase the infiltration potential of the affected area. Little runoff should occur from the site. There are no perennial streams in the area.

ECOLOGY:

Vegetation is very sparse, composed of sagebrush, ephedra and native grasses. As the mine is small, is a reactivation and exists adjacent to a junction of two roads used for access and ore haulage for other uranium mines in the area there should be little influence on wildlife.

STRUCTURES AND FACILITIES:

Existing structures include numerous underground workings, a waste dump and a short access road. No additional structures or facilities are planned for the future.

MINING AND RECLAMATION:

During Operations:

1. Mining will be conducted in a safe, orderly and minerlike manner.
2. Surficial material will be segregated and stockpiled for future reclamation.
3. Overburden removed from above abandoned underground workings will be backfilled into previously mined-out sections of the strip mine area.

After Operations:

1. Extraneous debris, scrap metal and wood, and unusable buildings will be buried or removed from the mine area.
2. Surficial material will be relocated and regraded over the mined area in harmony with the local contour.
3. The entire area affected will be stabilized by establishing specified plant species through seeding.

IMPACTS:

The probable major impact caused by the mine is visual. The 500 foot x 300 foot area is adjacent to two access-haul roads.

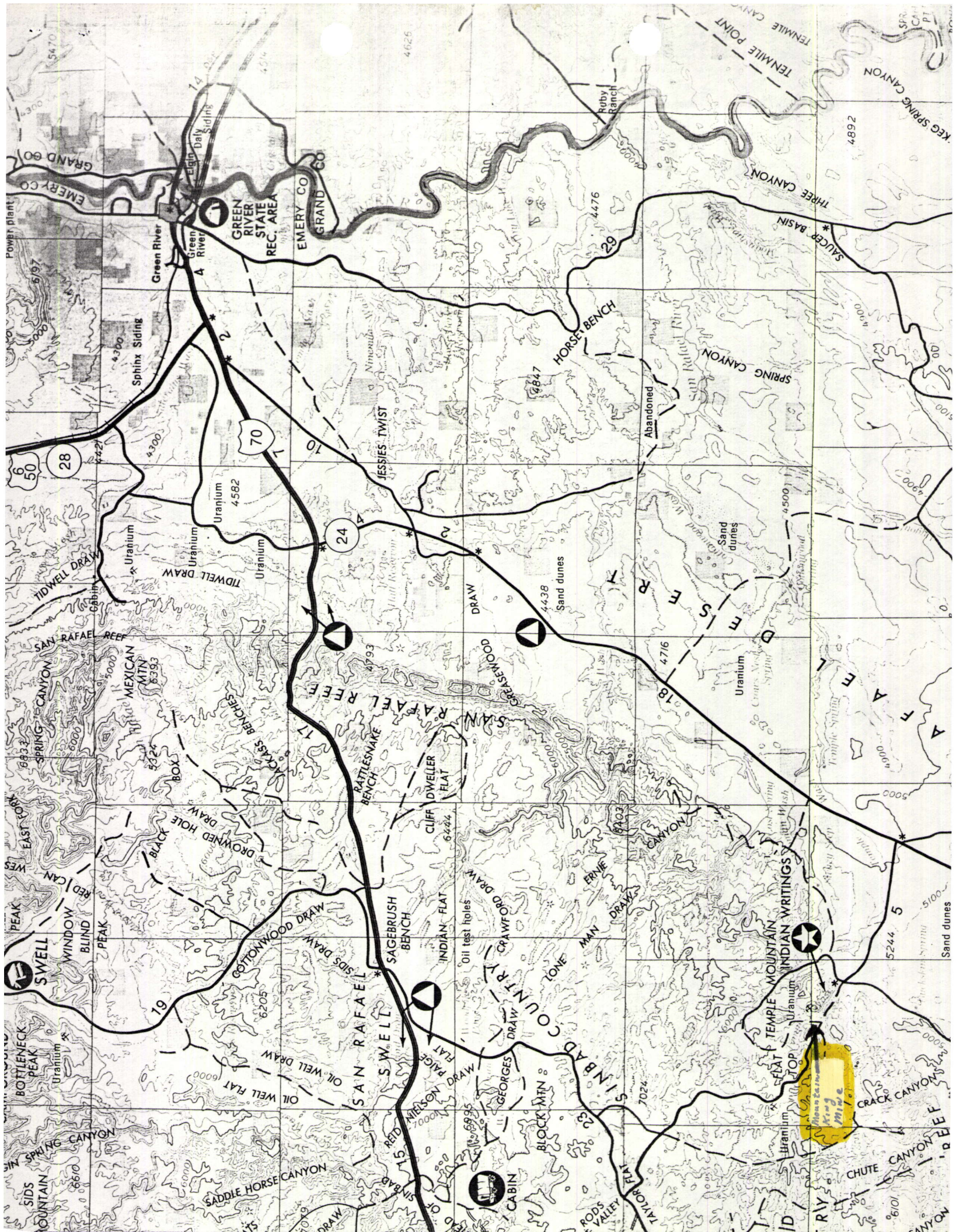
SURETY ESTIMATE:

Reclamation surety is estimated at \$5,464.00 which includes a 5% inflation factor for the three year proposed mine life. The mining company prefers an escrow account for the surety. It is recommended that 50% of the surety be posted before mining into the account and 50% be deposited at the end of the first year.

APPLICATION HISTORY:

February 26, 1979 - Mining and Reclamation Plan received.

March 10, 1979 - Division Inspection.



DIVISION OF OIL, GAS, AND MINING

BOND ESTIMATE

OPERATOR: Ritter Ekker and Don Ekker, a Partnership
 MINE NAME: Mountain King Mine
 LOCATION: Section 3, T. 25S., R. 11E.
 COUNTY: Emery County
 DATE: March 19, 1979

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.			
	2. Removal of trash & debris.			
	3. Leveling of ancillary facilities pads and access roads.	Lump sum	\$500.00	\$ 500.00
B.	REGRADEING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.			
	2. Recontouring of highwalls and excavations.			
	3. Spreading of soil or surficial materials.	16 hours of cat time	\$ 85.00/hr.	\$1,360.00
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	8 acres	\$ 25.00/ac.	\$ 200.00
	2. Seeding or planting.	8 acres	\$150.00/ac.	\$1,200.00
	3. Construction of terraces, waterbars, etc.	-----	-----	-----
D.	LABOR			
	1. Supervision.	16 hours	\$ 10.00/hr.	\$ 160.00
	2. Labor exclusive of bulldozer time.			
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	-----	-----	-----
	2. Removal or neutralization of explosive or hazardous materials.	Lump sum	\$100.00	\$ 100.00
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.			
G.	OTHER			
	1. Reseeding if necessary	8 acres	\$150.00/ac.	\$1,200.00
	2. 5% inflation for 3 years	CAF=1.1576	Subtotal	\$4,720.00
			Total	\$ 744.00
				\$5,464.00